ROI	MANYCHEVA, O.D.	
		그런 그렇게 하면 하는 그를 다고 싶다.
	Causes of fluctuations of bream catches in the	Aral Sea.
	Vop. ikht. no.11:44-47 '58.	(MIRA 12:1)
	γορ. Ikito: ποιτιντιστή σου	
	1. Azovskoye otdeleniye Vsesoyuznege nauchno-is	sledovatel skoge
	instituta morskogo rybnoge khozyaystva i ekean	ografii
	(Aral Sea Bream)	
	마다마일 살이 바꾸다 남을 살아가는 하셨다는 그들의 나는 말라고 말	보시고 하다들은 살린 이 그리고 해
	요일 없는 사람이 아니를 가장하는 것이 가장 주면 하는 사람들이 살았다.	
		옷을 잘 하는 것들은 경기 때 그리를 받다.
	사람들은 아이를 하는 것이 하는 것이 없는 것이 없는 것이 없는 것이 없다.	사람들은 아이들은 사람이 되었다.
	그 이 나는 그릇을 가야 하는 가장을 가고 있는 것을 하는 것이 되었다.	
		발생하다 보고 있는 사람들은 사람들이 되었다.
	일 일 구마 사이 모든 보고 하얗겠다. 그리고 한 그리고 하다 하는 것이다.	
	이 보다는 살아가는 것이 나면서 있는 사람들이 하는 것이 되었다고 있었다.	
	성 물건으로 화장하는 사람은 목표를 받는 것을 받았다. 그는 그리고 있다는 것은 것은 것은 것이다.	
	시간 사람들은 얼마를 가장 하는 것이 되었다. 그는 사람들은 살이 없는데 없었다.	프로젝트 프로그램 그리고 내다
	네 뭐 되면 하다는 그리고 있는 것이 되었다. 그리고 있는 것이 없는 것이 없는 것이 없는 것이다.	불발하다면 시간 시간 그리다 다
	이 그리고 있다면서 가는 사람들이 가를 보는 때문에 가장하는 가장 하는 것이다.	실하다 가지 하지 않는 분들하다
	그는 사람이 되었다. 이번 이번 가장 그렇게 들었다. 이번 사람이 하고 되었다고 하는 사람들이 되었다.	당하고 생활되는 그리글말의 꽃
	는 사람들에 보는 것들이 되었다. 그는 그는 그들은 학생들에 설립되었다. 나는 사람들에 들었다. 그는 그들은 그는 그들은	
	그는 오랜드램 실제 발견하면, 기계에 가려가 모르는 편이 되었다. 이	[기 이 시작 기기 등은 시골까지 ###
	고생일에서 학계 살림이들이 살아 가고 하네네요 보고 먹었다.	
	이 이 성을 용을 하고 생각이 살았다면서 가면서만 되는 것을 먹었다면 사람 많은데?	

ROMANYENKO, A.

"Adjustment of Weight Proportions on the Basis of Loss in Dust Suspended in the Air", Tr. From Russian, P. 18, (KOHASZATI LAPOK, Vol. 9, No. 1, January 1954, Budapest, Hungary)

SO: Monthly List of East European Accessions (EEAL), IC, Vol. 4, No. 3, March 1955, Uncl.

Cancer of	the ovaries.	Fel'd. i	akush. 23	no.7:24-27	J1 '58 (HIRA 11	:8)
	(OVARIESCANC	ER)				
	이 강성 기반기					
				시간에 발생하		
	사는 살림 이렇게 이렇지 않다.					

ROMANYUK, Anna Andreyevna, inzh.; KOCHERGIN, A.D., red.; SKOROBOGACHEVA,
A.P., red.izd-va; ZEF, Ye.M., tekhn.red.

[Manual on oxygen technology; manual for the training of
industrial workers and technicians] Apparatchik kislorodnoi
ustanovki; uchebnoe posobie dlia proizvodstvenno-tekhnicheskogo
obucheniia rabochikh. Sverdlovsk, Gos.nauchno-tekhnizd-vo
lit-ry po chernoi i tsvetnoi metallurgii. Sverdl.otd-nie, 1959.

(Oxygen)

(Chemical engineering--Equipment and supplies)

tableland, and the Sk 413-422 '58.	, the adjacent rea	Trudy VNIGNI r	iolian	
(Carpathian Mount	tain regionWater			
(Petroleum engine	ering)			
	발표에 되는 18 2의 기본 보다 보다. 18 2일 보고 18 1일			
그림 계속되고 그림생동물의 불자				
병기시를 통극을 그렇게 됐다.				

1. Ukrainskiy nauchno-issledovatel'skiy gornorudnyy institut.	1. Ukrainskiy nauchno-issledovatel'skiy gornorudnyy institut.
그는 그 아이들은 아이들은 아이들은 그는 그는 그는 그를 하는 것을 하는 것이 없다.	마일다는 보니 보는 그 사이트를 하고 있는 이 마이트 (PERC) 그 보고 있다고 하고 하고 하는 이 스펙을 보이고 보고 있다고 있다.
들이 사진 그리다 만든 이웃이 그리고 있었다. 인생물통원은 그리고 하는 이 이끌고 있다고 말씀들었다. 모델몰를 통했다.	왕사는 교통은 마다 시간 시간 시간 시간 시간 시간 시간 시간 사람들이 한 문화 활동을 한 가는 목 하는 것이 가능하는 그를 불렀다는 것은 사람들이 없었다.
그런 그리다는 어느 어느 어느 어느 어느 어느 어느 어느 아느는 사람들이 들어 하면 함께 함께 가는 아이가 하는 것이다. 그는 사람들은 사람들은 중심에 가장 살아 이번 때문 사용을 표현하였습니다.	생활으로 하는 그 전에 가는 그는 그들은 그들이 있는 것이 되는 것으로 하는 것으로 가장 가장 보고 있는 것으로 하는 것으로 되었다. 그는 것으로 가장 가장 사용되었다. 그는 것은 것으로 가장 기계 사용자를 보고 있는 것으로 가장 있는 것으로 가장 기계를 보고 있는 것으로 가장 기계를 보고 있는 것으로 가장 기계를 보고 있는 것으로 되었다. 그런 것으로 가장 기계를 보고 있는 것은 것은 것으로
고 있는데 하는데 말하는데 보고 있는데 하는데 되었다. 그는데 그런데 그런데 하는데 말하는데 되었다. 일반 1일 하는데 하는데 말하는데 하는데 하는데 보고 있는데 그를 하는데 하는데 하는데 되었다.	등하는 것으로 가는 사람들이 되었다. 그는 것으로 가장하는 사람들이 있는 것으로 생활하는 것으로 하는 것으로 가장하는 것으로 있는 것으로 있는 것으로 있는 것으로 가장하는 것으로 있는 것으로 있는 사람들이 있는 것으로 가장하는 것으로 되었다.

"API	PROVED FOR RELEASE: 07/19/2001	CIA-RDP86-00513R001445310018-4
RCMAN	YYUK, A.F.	
	Formation of the chemical composition of the oil and gas fields of the cis-(UkrNIGRI no.5:166-175 '63.	of the orde ground waters Carpathian region. Trudy (MIRA 18:3)

ROMANYUK, Aleksandr Ivanovich [Romaniuk, O.I.]; OLEFIRENKO, G.A.

[Oleffrenko, H.A.], red.; NEMCHENKO, I.Yu., tekhn. red.

[Harvest corn with machines only] Zbyraty kukurudzu

til'ky mashynamy. Kyiv, Derzhsil'hospvydav URSR, 1962. 29 p.

(MIRA 16:4)

1. Mekhanizator kolkhoza "Nove zhittya" Skadovskogo rayona
Khersonskoy oblasti (for Romanyuk).

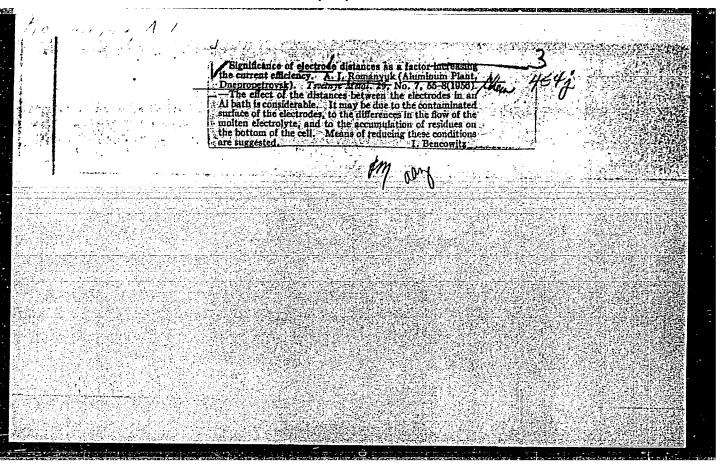
(Ukraine--Corn (Maize))--Harvesting)

BOROVYY, Ye. M.; KHIMICH, M. G.; ROMANYUK, A. I.

Closed injury of the abdomen with rupture of the head of the pancreas and the common bile duct. Nov. khir. arkh. no.2:67-68 '62. (MIRA 15:2)

1. Rovenskaya uchastkovaya bol'nitsa i khirurgicheskoye otdeleniye (zav. - Ye. M. Borovyy) Rovenskoy oblastnoy bol'nitsy.

(PANCREAS—WOUNDS AND INJURIES)
(BILE DUCTS—WOUNDS AND INJURIES)



current capacity. TSvet. met. 29 no.7:55-58 J1 '56. (MLRA 9:10	0)
1. Dneprovskiy alyuminiyevyy zavod. (AluminumElectrometallurgy)	
조 그들을 하고 하를 위해되는 때 그는 일이 되었다. 그 나는 경험 그리는 생활하는 생각이 되는 것을 받는다. 당시 일일 한 경험을 열었다. 그 사람이 당당하는 사람은 사람들은 사람들은 사람들이 되었다.	
하는 것 같은 사람들이 되었다. 이 사람들이 가는 사람들이 되었다. 그런 것이 되었다는 것 같은 것이 되었다. 이 사람들은 사람들은 사람들이 가지를 기록했다. 사람들의 사람들이 되었다면 모두를 보면 주었다. 이 사람들은 생각이다.	
는 하는 사람들이 되었다. 이 경험에 가장 전혀 되었다. 그런 사람들이 되었다. 그런 사람들이 되었다. 그런 사람들이 되었다. 그런 그런 사람들이 되었다. 그런 사람들이 되었다. 그런	
사이트 경기에 되었다. 그리고 기를 하지만 하는 것 같아 하는 것이 되었다. 그는 것이 되었다. 그리고 있다. 하는 것이 되었다. 그런 것이 되었다.	
(1) 전문 등급한 기업 등 하면 생각을 받는 것을 받는 것을 받는데 보고 있다면 하는데 말을 하는데 되었다. 그들을 하는데 있는데 그들은 것을 하는 것을 하는데 말로 하는데 되었다면 하는데 말로 하는데 되었다면 하는데 말로 살아 있다.	
하는 사람들에 대한 경험을 통해 되었다. 이 사람들은 경험을 받는 것이 되었다. 보다 사람들은 경기 교육 기계 사람들은 기계	
하는 것 않는 것들이 되었다. 이 경험에 되었다는 이 경험에는 그 가능을 하면 하는 것이 되었다. 그는 것이 되는 것을 하는 것을 하는 것이다. 한 기업을 하는 것이 하는 것이 없었다. 경험에 다른 것이 되었다는 것이 되었다는 것이 되었다. 그 것이 되었다는 것이 되었다. 그 것이 되었다.	
가는 함께 되고 있다. 생물을 가는 것이 되었다면 하는 것이 되었다. 그런 그는 것이 되었다면 하는 것이 되었다. 그런 그는 것이 되었다. 그런 그런 	
하지 않고 경기를 받는 것이 되었다. 그는 것이 되었다. 그는 것이 되었다. 전 하지 않고, 한 경기를 보고 있는 것이 되었다. 그는 것이 되었다. 그는 것이 되었다. 그는 것이 되었다.	

Hy no	drogeology of t .7:63-68 '63.	he Glebovka	gas rield.	rrady yk	(MIRA 19:1)	
이 시민 사람들 학생들을 하다						

HOZENSHTRAKH, M.K.; ROMANYUK, A.F.; FISHER, Ye.L.; VAYL', T.I., red.;
LAVREHOVA, NrBer-tekhmiredr

[Practices in the Vladivostok Harbor] Opyt raboty Vladivostok—skogo porta. Moskva, Izd-vo "Morskoi transport." 1958. 55 p.

(MIRA 12:11)

(Vladivostok—Harbors) (Cargo handling)

SHTOGRIN, Ol'ga Dmitriyevna[Shtohryn, O.D.]; GAVRILENKO, K.S.

[Havrylenko, K.S.], retsenzent; ROMANYUK, A.F., retsenzent;

PORFIR'YEV, V.B., akademik, nauchnyy red.; SERDYUK, O.P.,

red.; LISOVETS', O.M. [Lysovets', O.M.], tekhn. red.

[Underground waters of Quaternary sediments in the cis
Carpathian region] Pidzemni vody chetvertynnykh vidkladiv

Peredkarpattia. Kyiv, Vyd-vo AN URSR, 1963. 137 p.

(MIRA 16:12)

1. Akademiya nauk Ukr.SSR (for Porfir'yev).

(Carpathian Mountain region--Water, Underground)

THE CONTROL OF THE WORLD PROPERTY OF THE PROPE

CIA-RDP86-00513R001445310018-4 "APPROVED FOR RELEASE: 07/19/2001

TKACHUK, V.G.; ROMANYUK, A.F. liydrogeological characteristics of the subsurface underthrust fold in the Borislav field. Neft. i gaz. prom. no.2:7-13 Ap-Je (MIRA 15:6)

162.

1. Ukrainskiy nauchno-issledovatel'skiy geologorazvedochnyy institut.

(Borislav region--Water, Underground) (Borislav region-Folds (Geology))

:::::::::::::::::::::::::::::::::::::	
면 UR/0056/65/048/004/1202/1204/2/ CESSION NR: AP5010522 UR/0056/65/048/004/1202/1204/2/	
THOR: Akhmenov, S. A.; Kovrigin, A. I.; Kulakova, N. K.; Romanyuk K.; Strukov, M. M.; Khokhlov, R. V.	
TLE: The threshold and line intensity of stimulated Raman scatter	
g in liquids URCE: Zhurnal eksperimental noy i teoraticheskoy fiziki, v. 48,	
. 4, 1965, 1202-1204 PIC TAGS: stimulated Raman scattering, Raman scattering threshold	
man scattering line intensity	
STRACT: Stimulated Raman scattering (SRS), at which coherent cillation of molecules of the scattering medium is generated, has a three cillation of molecules of the scattering medium is generated, has a three cillations of the incident wave,	esbold
10° $^{\circ}$	e
plecule of the scattering medium at frequency wo lecule of the scattering medium at frequency of is the absorption of the medium at well frequency. Experiments on the sefficient of the medium at well frequency. Experiments on the sefficient of SRS were performed with organic liquids (benzene and sectation of SRS were performed with organic liquids (benzene and sectation of SRS were performed with organic liquids)	OB
rd 1/3	479

L 49442-65
ACCESSION NR: AP5010522

cyclohexane) in order to establish the factors which determine the value of the threshold and line intensity in ranges shorter than that of ruby laser (10 20.694). The second harmonic of a neodymium glass laser ($\lambda_0 = 0.53 \mu$) was used to excite SRS. The investigations showed a substantial decrease in SRS threshold in comparison to corresponding values at $\lambda_0 \approx 0.7 \mu$. In benzene, SRS was approximately half that at 왕 0.7μ under the same investigation conditions. This could be the result of the fact that 1) with the rise of operational frequency ω_0 the value $\beta_{c\,i}$ increases or 2) the dismeter of the focal spot of the generator of optical harmonics can be considerably smaller than that of the ruby laser, due to a smaller divergence of the harmonic beam. The intensity of SRS grows with the distance between the forward edge of the vessel and the focus. Generators of harmonics, in addition to their use for observation of SRS in the vicinity of electron absorption bands, can also be used for the investigation of SRS and nonlinear absorption effects in intensive biharmonic fields (including both Raman scattering of the harmonic field by coherent molecular oscillations excited by a wave of fundamental frequency and nondegenerated multiphoton absorption). Orig. art. has: 2 formulas [JA] and 2 tables.

Card 2/3

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445310018-4

CCESSION NR: AP5010522 SSOCIATION: Moskovskiy gosudarstvennyy universitet (Moscow State niversity) UBMITTED: 09Jan65 ENCL: 00 SUB CODE: 0P				$\frac{1}{ y }$
niversity) UBMITTED: 09Jan65 ENGL: 00 SUB CODE: 0P				
ATD PRESS 1 3045	niversity)			
	O REF SOV: .004	OTHER! 2005	ATD PRESS 1 3245	
				PATE N

9,2572 25959

S/141/61/004/001/019/022 E192/E382

AUTHORS: Akhmano

Akhmanov, S.A., Romanyuk, A.K. and Strukov, M.M.

TITLE:

The Characteristics of a Double-tuned Parametric

Oscillator

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Radiofizika, 1961, Vol. 4, No. 1, pp. 179 - 181

TEXT: The purpose of this paper is to give some experimental results relating to the investigation of double-tuned parametric oscillators. The data on such oscillators seems to be scarce, except for the work of V.A. Lazarev (Ref. 2 - ZhTF, 10, 918, 1940), where the parametric excitation of a system consisting of two coupled tuned circuits was investigated theoretically and experimentally. The system considered in this work is in the form of two tuned circuits coupled by means of a periodically-changing reactance (similar to that of Ref 3 (H. Heffner, G. Wade - J. Appl. Physics, 29, 1321, 1958)). The principal parameter of interest in this system is its frequency stability, since it produces two frequencies f and f , such that f + f = f , where f is the Card 1/6

The Characteristics of 25959

S/141/61/004/001/019/022 E192/E382

pump frequency. The frequencies f_1 and f_2 can be continuously varied by varying the resonant frequencies fol and foe of the tuned circuit in such a way that ${
m f}_{
m O1}$ + ${
m f}_{
m O2} \simeq {
m f}_{
m H}$. In other words, a double-tuned oscillator of this type is variable while its pump frequency is fixed. The studied amplifiers cover the frequency range from 2 - 20 Mc/s as well as UHF (pump frequencies of 6 000 and 9 000 Mc/s). variable reactances amployed were in the form of germanium p-n junction diodes. At UHf the tuned circuits had Q-factors of the order of 50 - 80 and the oscillators were excited at pump powers of 10 - 20 mW; on the other hand, the oscillators for the lower frequencies were excited at pump signals of 1.5 - 2 V. The power generated by the oscillators was 10-14 db lower than the pump power. The steady-state amplitude of the oscillator output was largely dependent on the nonlinear conductance of the diodes. The frequency-stability measurements were carried out by using a crystal-stabilized

Card 2/6

25959
The Characteristics of ...

S/141/61/004/001/019/022 E192/E382

pump-source generator operating at $f_H = 28$ Mc/s. The block schematic of the measuring system is given in Fig. 1. In the first series of experiments, the frequencies f, and f2 were varied between 11 and 13 Mc/s and 17 and 15 Mc/s, respectively; in the second group of experiments, $f_1 \simeq 5$ Mc/s and $f_2 \simeq 23$ Mc/s. The experimental results showing the dependence of the generated frequency on the changes of the reactances in the tuned circuits are shown in Fig. 2. The axis of the abscissae shows the relative change $\Delta C_1/C_1$ of the tuning capacitance C_1 of the first circuit, while the axis of the ordinates gives the corresponding relative change $\Delta C_2/C_2$ of the capacitance C_2 of the second circuit, which is necessary to ensure the stability of the frequency $\mathbf{f_1}$. It is seen that the signs of $\Delta \mathbf{C_1}$ and $\Delta \mathbf{C_2}$ coincide and that for $Q_1 = Q_2$, the ratio $\Delta C_1/C_1 = \Delta C_2/C_2$ In general, these two ratios differ by a (see Curve 1). Card 3/6

25959
The Characteristics of

S/141/61/004/001/019/022 E192/E382

factor K, which is dependent on the damping of the circuits; for the graphs II and IV, $Q_1 \searrow Q_2$, while for the graph III $Q_1 \swarrow Q_2$. It is concluded, therefore, that the "unilateral" deviations of the reactive parameters in a double-tuned parametric oscillator are mutually compensated. The frequency stability of the system is dependent, to some extent, on the pump voltage and this effect amounted to 50-70 cps/V. The influence of the fluctuations of the variable reactance diode on the frequency stability can be made negligible since the temperature coefficient of the p-n junction is low and the biasing source for the diode can be made very stable. The authors express their gratitude to Yu.Ye. D'yakov for suggesting the formulae and for valuable remarks, to S.D. Gvozdover for his interest in this work and to A.V. Krasilov for supplying the semiconductor diodes.

Card 4/6

25959

,这种理论,这种是一种的,我们就是一种的,我们就是一种的,我们就是一种的,我们就是一种的,我们就是一种的,我们就是一种的,我们就是一种的,我们就是一种的,我们就

S/141/61/004/001/019/022 E192/E382

The Characteristics of

There are 2 figures and 6 references: 2 Soviet and 4 non-Soviet. The four English-language references quoted are: Ref. 3 (quoted in text); Ref. 4 - A. Uhlir, Proc. IRE, 46, 1115, 1958; Ref. 5 - Hsu-Hsiung - NSIA-ARDC Conf. Electron., Washington, 1958, p. 81; Ref. 6 - P. Fitzgerald, G. Wade and C. Crumly, IRE Trans. Electron. Devices, 6, 243, 1959-

ASSOCIATION:

Moskovskiy gosudarstvennyy universitet

(Moscow State University)

SUBMITTED:

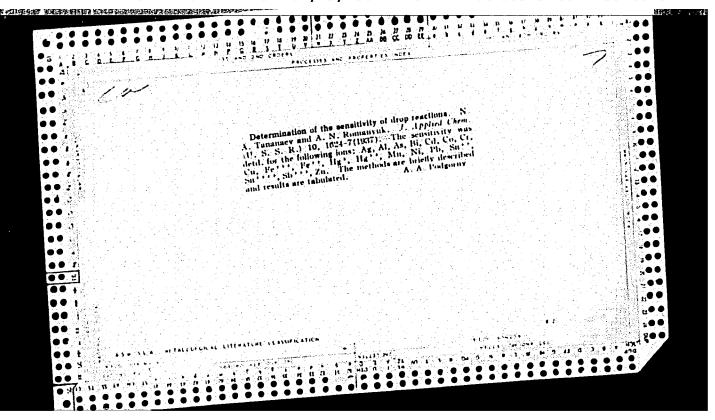
July 9, 1960

Card 5/6

AKHMANOV, S.A.; D'YAKOV, Yu.Ye.; ROMANYUK, A.K.; STRUKOV, M.M.

Stable wide-band generator with a nonlinear reactance. Prib.i tekh.@ksp. 6 no.5:92-97 S-0 '61. (MIRA 14:10)

1. Fizicheskiy fakul'tet Moskovskogo gosudarstvennogo universiteta. (Pulse techniques (Electronics))



USSR / Cultivated Plants. General Problems.

M-1

Abs Jour: Ref Zhur-Biol., No 6, 1958, 24922

: Zamostnyy, N. I., Romanyuk, A. Yu. Author

: The S.R.I. of Agriculture and Livestock Raising Inst

in the Western Rayons of the Ukrainian SSR

: The Horse Bean as a Filler Title

Orig Pub: Kartofel', 1957, No 2, 71-72

Abstract: Tests on filling potato plantings with horse beans were made in 1955-1956 by the Scientific Research Institute of Agriculture and Livestock Raising in the Western Rayons of the Ukrainian SSR. The medium ripening Jubel variety and late Karnea potatoes were taken for the tests. They had vegetation periods corresponding to those of the horse beans. Twenty tons per hectare of manure were applied under the potatoes, and a side dressing of

Card 1/2

AID P - 4468

Subject

: USSR/Aeronautics - Parachutes

Card 1/1

Pub. 58 - 5/10

Author

: Romanyuk, B., Honored Master of Sports

Title

Jumping from High Altitudes

Periodical: Kryl. rod., 2, 9-11, F 1956

Abstract

The article relates the preparation and the carrying out of two high altitude jumps performed by the author with a group of other parachutists in the summer of 1955. The article contains some indications concerning the equipment used in the USSR in high altitude jumps as well as a summary description of a device ensuring the

timely opening of parachutes. One photo.

Institution: None

Submitted

: No date

BEMBANUE, ·13.11.

49-1-5/16

AUTHOR: Romanyuk, B.A.

TITLE:

Determination of Gravity at Sea by the Pendulum Method. . III (Opredeleniye sily tyazhesti na more

mayatnikovym sposobom. III)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Seriya Geofizicheskaya, 1958, Nr 1, pp.54-64 (USSR)

ABSTRACT: In order to correct the observed values of the force of gravity for the inclination and acceleration of the support, it is necessary to know them as functions of time. inclinations and accelerations of the support can be deduced from the recordings obtained with pendula with different natural periods of oscillation. An "accelerometer" is defined as a "fast" pendulum whose natural period is much less than the periods of inclinations and accelerations of the support (usually less or equal to 1 sec).
An "inclinometer" is defined as a "slow" pendulum, whose natural period of oscillation is greater than the period of inclinations and accelerations of the support (usually 35 to 60 sec). Approximate differential equations of motion of inclinometers and accelerometers are set up,

Card 1/3

49-1-5/16

Determination of Gravity at Sea by the Pendulum Method. III.

taking into account terms of the second order of small quantities. The accuracy and limitations of the solutions are considered and working formulae are obtained which can be used to calculate the corrections for inclinations and accelerations, the main terms of which coincide with those given in Ref.3. It is concluded that it is in principle possible to carry out pendulum measurements at sea, provided the acceleration of the ship on which the measurements are carried out is less than 20 gl. Considerable differences occur at higher accelerations. If, however, the inclination of the pendulum support is determined by some other method, for example, photography of the horizon, then it is quite possible to carry out pendulum observations with accelerations greater than 20 gl. It is shown that pendulum instruments with a universal joint suspension and possibly a smaller period of natural oscillations have considerable advantages over pendulum instruments with a larger period of these oscillations. The former will follow more easily changes in the direction of the instantaneous vertical. The damping arrangement of a pendulum instrument should not be attached to the ship.

Card 2/3

49-1-5/16

Determination of Gravity at Sea by the Pendulum Method. III.

Various methods of interpretation of the records of inclinometers and accelerometers are described and calculation schedules are given. M.S. Molodenskii and Yu. D. Bulanzhe participated in this work.

There are 4 tables, 1 diagram and 3 Slavic references.

ASSOCIATION: Ac. of Sc., USSR, Institute of the Physics of the Earth (Akademiya nauk SSSR, Institut fiziki Zemli)

SUBMITTED: February 19, 1957.

AVAILABLE: Library of Congress.

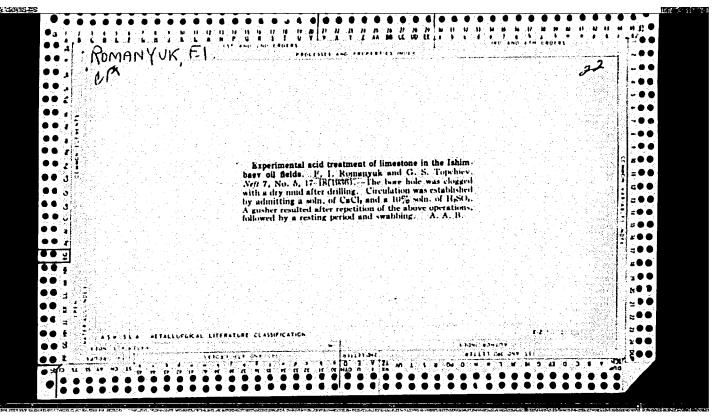
Card 3/3

ROMANYUK, B.A.

"Determination of Gravity at Sea by the Pendulum Method," by B. A. Romanyuk, Institute of the Physics of the Earth, Academy of Sciences USSR, Izvestiya Akademii Nauk SSSR, Seriya Geofizicheskaya, No 3, Mar 57, pp 341-350

In the article, from general theorems of theoretical mechanics, an exact differential equation of the motion of a pendulum on a moving support which has six degrees of freedom is derived. The exact differential equation of a pendulum is reduced to an approximate equation in which are retained terms up to the fourth order inclusively. A differential equation of the motion of an imaginary pendulum is obtained. (U)

KUM 1374



ECMANYOK, F.I.; OCHEVA, N.Ye.

Cement material for exclusion-repair work in oil wells on a base of urea-malamine-formaldehyde resins. Trudy VNII no.41: 47-54 '64.

(MIRA 17:11)

ROMANYUK, F.I.; KUZ'MENKOVA, O.M.; PONOMAREV, K.I.; USACHEV, P.M.;
EOLISHAKOV, L.A.

Exclusion of bottom waters with petroleum-paraffin solutions.
Trudy VHII no.35:61-67 '61. (MIRA 15:1)

(Oil fields---Froduction methods)

ROMANYUK, F.I.; KAMENSKIY	N.V.; OGNEVA, N.Ye.	
no 35.68-80 161.	waters with synthetic tars.	Trudy VNII (MIRA 15:1)
(01	fields-Production methods)	
	교육교 교육 회원 등 경영 등 경험 원칙 경기를 기반하는 결심 회원 등	

ROMANYUK, F.I.; PETROY, G.S. [deceased]; GOLUMEVA, A.N.; KARTASHEV, N.A.; SAZOMOVA, V.M.; KAMENSKIY, I.V.; OGNEVA, N.Ye.

New methods for preventing the flew of reservoir waters inte wells being exploited. Trudy VNII no.16:106-127 '58.

(Oil field fleoding)

(Oil field fleoding)

93-6-10/20 Romanyuk, F.I., Kravchenko, I.I., and Kartashev, N.A. AUTHOR: Exclusion of Bottom Waters from Producing Oil Wells by Means of Kerosene-Cement Mixtures (Izolyatsiya podoshvennykh vod v TITLE: ekspluatiruyushchikhsya skwazhinakh kerosinotsementnymi smesyami) Neftyanoye khozyaystvo, 1957, Nr 6, pp. 35-40 (USSR) PERIODICAL: Research and practice has shown that bottom water exclusion from oil wells by means of cement plugs is ineffective and leads to ABSTRACT: petroleum losses. Bottom waters can be most effectively excluded by introducing into the strata colloidal or true solutions, or various suspensions including conventional water-cement mixtures. Experience with the water-cement mixtures at the Bavly and Tuymazy oil fields demonstrated their superiority to conventional well cementing under pressure. But kerosene or Diesel oil mixed with cement is superior even to mixtures of water and cement because they set and harden only when the keroseme is displaced by water. Furthermore the properties of kerosenscement mixtures can be improved by adding cement accelerators such as cresol, acidol, neutralized black contact (NCM), Petrov's "contact", and grade III asphalt. In 1956 kerosenscement mixtures were tested in both the Bashkirskaya and the Tatarskaya ASSR. The tests were made in 11 wells flooded with bottom water (five wells each in the Tuymazy and Serafim oil fields and one in Bavly). Fig. 1 shows the layout and assembly Card 1/3

93-6-10/20

Exclusion of Bottom Waters from Producing 311 Wells by Means of Kerosene-Cement Mixtures (cont)

of the conent mixing equipment used in the tests. The proportions of kerosene to cement were calculated with the aid of formulas and the results are shown in Fig. 2. N.G. Imanayev and S.A. Chumanov of the Petroleum Froduction administration of the Tuymazy Fetroleum Industry (NFU Tuymazaneft') and A.M. Paykov and P.P. Shtur of the Petroleum Production Administration of the ktwakr'skiy Fetroleum Industry (NFU Oktyabr'skneft') participated in the field experiments. The tests were successful in seven wells but failed in the others (Cable 1), showing that kerosene-cement mixtures are suitable for extensive irdustrial application. In order to utilize this method of water exclusion it will be necessary to improve cementing equipment and materials. Airtight cement rings, non-shrink and expandable cements, plugging materials of greater plasticity, and packers of drillable material are needed. New types of cumulative action perforators will have to be designed so that the billet or torpedo chambers are arranged crosswise in one plane and simulteneous firing at several points in the casing and cement collar and sufficient crushing of the surrounding rock is ensured. The available conventional gun perforators, torpedoes (TFK-22 and TFK-32) and selective perforators (SSP) do not satisfy industrial requirements. The cumulative action bulletless perforators (PK-103) are best but are produced in ard 2/3

93-6-10/20

Exclusion of Bottom Waters from Froducing Oil Wells by Means of Kerosene-Cement Mixtures (cont)

where a stratum is to be fractured will have to be developed because the present radiometric methods for determining oil-water contact in wells and radioactive isotope methods for determining places where strata are to be fractured are inaccurate. Without a solution to the above problems and without careful study of the conditions and nature of flood in individual wells and in entire formations the successful exclusion of water from oil wells cannot be ensured even with the best of methods. There are two figures and one table. The three references are USSR.

AV. TLABLE: Library of Congress

Card 3/3

ECHANYUK, F. I.

"Isolation of Water Inflow in Cil Wells by the Method of Chemical Sealing of Fores in Water-Rearing Rocks." Thesis for degree of Cana Tech Sci. Sub 20 Jun 50, Moscow Order of labor Red Banner Fetroleum Inst imeni I. M. Gubkin

Summary 71, 4 Sep 52, <u>Dissertations Fresented for Degrees in Science and Engineering in Moscow in 1950</u>. From <u>Vechernyaya Moskva</u>, Jan-Dec 1950.

ROMANYUK, F.I.; KRAVCHENKO, I.I.; KARTASHEV, N.A.

Using mixtures of kerosene and cement for excluding water from active wells. Neft.khoz. 35 no.6:35-40 Je '57. (MIRA 10:7) (Oil field flooding) (Petroleum) (Gement)

IMAHAYEV, N.G.: GORBIMER, B.YB.; KHAVCHILB., ...; SLAZHEVICH, V.A.:
MARKOV, V.F.; SATTAROV, M.M.; GILLMANININ, I.G.; AZEIROV, E.B.;
BOBELYUK, V.F.; ROMANYUK, F.I.

Comments on the article by M.L. Surgacher "Exclusion of reservoir waters". Neft.khoz., No.11, 1962. Neft. Max. 41 no.8:38-57 Ag 163.

Present status of and prospects for the construction of steel tanks in the U.S.S.R. Ibid.:58-62

Gombiner). 2. Ufimskiv nefty eov nauchab-iraledovatel'skiy instit (for Kravchenko, Blassasich). 3. Neftepromyslovove upravl nive Chernomorneft! (for Karkov). A. Neftepromyslovove upravl nive Chernomorneft! (for Karkov). A. Neftepromyslovove upravlonive Arlanneft! (for Sattarov, Gil'manshin). 5. Gosudar-stvennyv institut po proyektirovaniva i issledovatel'skim rabotam neftedobyvayushchev promyshlemosti vostochnykh rayonov strany (for Ashirov). 6. Vsesovanyv nefterazovyv nauchabissled vatel'skiv institut (for Bobelyuk, Romanyuk).

(MIKA 17:10)

1. Spetsial noye konstruktorskoye byuro "Gazstroymashina".	Determining the digging resistance in the operation of rotary excavators. Stroi.truboprov. 9 no.2:18-21 F '64. (MIRA 17:3)
	1. Spetsial noye konstruktorskoye byuro "Gazstroymashina".
	[발흥] : [1] : [1] : [1] : [1] : [1] : [1] : [1] : [1] : [1] : [1] : [1] : [1] : [1] : [1] : [1] : [1] : [1] : [[[발흥] : [1] : [1] : [1] : [1] : [1] : [1] : [1] : [1] : [1] : [1] : [1] : [1] : [1] : [1] : [1] : [1] : [1] :
	보통이 문화 하나요? 보이는 전환 보고 있는데 하는데 보면 보다 보다 이 경기를
	는 경기에 가장 하는 경기를 받는 것이 되었다. 그는 것이 그는 것이 되었다. 그는 것이 되었다.
	일이 되어 보고 있는 것을 받는 것이 되는 것들이 되었다. 그런 이 이 사람들은 사람들이 되었다. 그는 것이 되었다. 한 일 하다 하는 것이 되었다. 그는 것이 되었다.
	근실 보다 발표되는 것을 하면 하면 하는 것이다. 그는 것은 사람들은 사람들은 사람들은 것이다. 그 사용하는 사용물을 통해 작용하는 것이라면 하는 것이라는 것이라는 것이라는 것이라는 것이다.
	다른 경우 등 경우 등 경우 등 기업을 보고 있다. 그는 사람들은 보고 있다면 하는 것이 되었다. 그는 사람들은 사람들은 사람들은 사람들은 사람들이 되었다. 그는 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은
고 있는 등 시간에 가장 등에 있는 것이 되었다. 그런 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은	하면서 기계하게 하늘 사용하는 것은 사용이 되는 것이다.
통통 살아 있는 일 시간 그는 아니라 나를 된 것 같아. 얼마를 하는 것 같아 나는 그는 그들은 그릇이 살아 되었다.	고 보통을 하는 생물을 하는데 보고 모습을 하는데 말라면 하는데 하는데 하는데 되었다. 그는 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	

MALD HA, V.A. [Malynina, V.A.]; ROMANYUK, G.G. [Romaniuk, H.O.];

ESSARUK, G. Ya. [Kosaruk, H. IA.]; BALAYEVA, O.P. [Balaieva,
O.P.]

Manufacture of goods from synthetic fibers in the Zhitomir
Hosiery factory. Leh. prom. no.4:12-14 O-D'64

(MIRA 18:1)

COUNTRY CATECOLY	USSA : Cultiveted Plants. Cormercial. Oleiferous. E. Sugar-Fearing. E.
BO. JOUA.	. RZ 18161., F6. 1, 1259; F6. 1739
AUTHGR ENST.	Pomonguk, G.T.; Shenerbing, V.I. : All-Union Folder.Inst. of Cleiferous and
TIUS	Selection and Seed Growing of Sunflower.
	V 36: English otehrs o marchno-isaled. rebate (Vses ni-i. in-se maskicha. i slicossalicon.
ania. 169.	: kulitur za 1956 g. Krasnoter, "Sev. Luten", 1957, 56-40
/ ESTRACT	At the Amartiski/hase, from a group of surly-ripeding sunflower varieties, in compatibles variety testing in the year 1056, first places according to see is crops were taken by verieties 10.05 (bu 90%). In the group of medium-ripeding varieties, according to these oritoria, a new veriety 90% tas isolated in the process of the performed work, the processivity and oil bearing capacity of Armaricania 1497 and the All-Union Research Institute of bil anothernal allemnia to varieties were increased at anothernal allemnia to the performance of the process of the performance of the process of the performance of the process of the process of the performance of
490):	17 *gasential Cil-Hearing Grous.

M-7

WHAY LANGE

USSR/Cultivated Plants. Technical Oleaceae, Sugar Plants

Abs Jour : Ref Zhur - Biol., No 1, 1958, No 1662

Author : G.T. Romanyuk, V.I. Shcherbina

Inst

: Not Given : Sunflower Selection and Seed Growing Title

Orig Pub : V sb.: Kratkiy otchet o nauchn.-issled. rabote Vses. n.-i.

in-ta machish i efiromaslich. kul'tur VASKhNIL za 1955 g,

Krasnodar, 1956, 26-31

Abstract : Results are presented of selection work at the auxiliary sta-

tion of the Institute of Armavir During 1952-1955 in developing early-ripe, high-oily sunflower varieties and their further improvement in the process of the seed-growing. Characteristics of the best varieties and prospective strains are

indicated.

Card : 1/1

ROMANYUK, I.A.		
Effect of electrolytic of taneous potential. Razv	corrosion on the measurement of ved. i prom. geofiz. no.39:61-6	the spon- 8 '61. (MIRA 15:3)
	(Electric prospecting)	(MIRK 13-3)
	진상 60 2011회 교육 경영경향으로	
꽃 하는 하는 하는 하는 이 등 등록 모든 하다.		
漢한 사용으로 보고 있는 것이 하는 것이 되었다. 그는 경험이 있는 것 [편집] 기계	an dia katamatan kat Katamatan katamatan	
	사용하다 보고 있는 것이 되었다. 그런 사람들이 되었다. 그는 것을 모르는 것이 없는 것이 없는 것이 없는 것이 없다. 그런 것이 없는 것이 없는 것이 없는 것이 없는 것이 없다. 그런 것이 없는 	
26 - 그리고 보는 이 이 그리고 있는 것이 되었다. 그는 것이 되었다. 하는 것 26 - 그리고 있다. 그리고 있는 것은 이 것이다. 그리고 있는 것을 가지 않는 것이다.		
	현존 유민들은 제상이 변환하는 것 같은 것이 되었다. 그는 것이 없는 것은 것이 없다. 유민들은 기계 기계 기계 중에 가게 되었다. 그 기계	
경이 되는 사람들이 되었다. 그런 사람들이 없는 것이 없는 것이 없는데 보고 있다. 경기 라는 사람들이 되었다. 그는 사람들이 가장 함께 보고 있다고 있다.		
경기 사용으로 함께 이 전기 하다. 이 이 이 경기가 되다고 있다. 경기를 보통하는 것이 되었다는 것이 되었다는 것이 되었다.		
	마루 시민들은 이 일반 등을 가고싶다.	
홍물병 등 기계 시기를 보고 있는데 하는데 함께 되었다. 프로젝트 : 사용 이를 가고 있는데 하는데 하는데 되었다.		
	and the first section of the square world life, there is all the petition	

ROMANYIK, I.M.; ÆLIZMYT, A.M. Simultaneous production of acetylene and ethylene with the pyrolysis of hydrocarbon raw materials. Khim. prom. 41 no.2: 13-16 f '65. (MIRA 18:4)	cimultaneous production of acetylene and ethylene with the pyrolysis of hydrocarbon raw materials. Khim. prom. 41 no.2:			
Simultaneous production of acetylene and ethylene with the pyrolysis of hydrocarbon raw materials. Khim. prom. 41 no.2:	Simultaneous production of acetylene and ethylene with the pyrolysis of hydrocarbon raw materials. Khim. prom. 41 no.2:	如是是"我们",这是"我们",就是一个"我们",可以把我们的帮助的,我看着我们的一个"我们",我们就是一个"我们",我们是一个"我们",我们就是我们的一个"我们",我们们就是我们的一个"我们",我们		
Simultaneous production of acetylene and ethylene with the pyrolysis of hydrocarbon raw materials. Khim. prom. 41 no.2:	Simultaneous production of acetylene and ethylene with the pyrolysis of hydrocarbon raw materials. Khim. prom. 41 no.2:			
Simultaneous production of acetylene and ethylene with the pyrolysis of hydrocarbon raw materials. Khim. prom. 41 no.2:	Simultaneous production of acetylene and ethylene with the pyrolysis of hydrocarbon raw materials. Khim. prom. 41 no.2:			
Simultaneous production of acetylene and ethylene with the pyrolysis of hydrocarbon raw materials. Khim. prom. 41 no.2:	Simultaneous production of acetylene and ethylene with the pyrolysis of hydrocarbon raw materials. Khim. prom. 41 no.2:	いい さいけい かいこうしゅ しゅうしゅう しゅうしゅう 一番 ひとり かいかい かいかい かいかい かいかい かいかい かいかい おおり 大学 大学 大学 大学 アンドラ アンドラ アンドラ アンドラ アンドラ アンドラ アンドラ アンドラ		
Simultaneous production of acetylene and ethylene with the pyrolysis of hydrocarbon raw materials. Khim. prom. 41 no.2:	Simultaneous production of acetylene and ethylene with the pyrolysis of hydrocarbon raw materials. Khim. prom. 41 no.2:	《《《《《《《······························		R
Simultaneous production of acetylene and ethylene with the pyrolysis of hydrocarbon raw materials. Khim. prom. 41 no.2:	Simultaneous production of acetylene and ethylene with the pyrolysis of hydrocarbon raw materials. Khim. prom. 41 no.2:			ЭM
Simultaneous production of acetylene and ethylene with the pyrolysis of hydrocarbon raw materials. Khim. prom. 41 no.2:	Simultaneous production of acetylene and ethylene with the pyrolysis of hydrocarbon raw materials. Khim. prom. 41 no.2:			AN'
Simultaneous production of acetylene and ethylene with the pyrolysis of hydrocarbon raw materials. Khim. prom. 41 no.2:	Simultaneous production of acetylene and ethylene with the pyrolysis of hydrocarbon raw materials. Khim. prom. 41 no.2:			
multaneous production of acetylene and ethylene with the rolysis of hydrocarbon raw materials. Khim. prom. 41 no.2:	multaneous production of acetylene and ethylene with the rolysis of hydrocarbon raw materials. Khim. prom. 41 no.2:		P)	9.
oltaneous production of acetylene and ethylene with the olysis of hydrocarbon raw materials. Khim. prom. 41 no.2:	oltaneous production of acetylene and ethylene with the olysis of hydrocarbon raw materials. Khim. prom. 41 no.2:			m.
aneous production of acetylene and ethylene with the rsis of hydrocarbon raw materials. Khim. prom. 41 no.2:	aneous production of acetylene and ethylene with the rais of hydrocarbon raw materials. Khim. prom. 41 no.2:		16	111
neous production of acetylene and ethylene with the	neous production of acetylene and ethylene with the s of hydrocarbon raw materials. Khim. prom. 41 no.2:		rsi i	ar
ous production of acetylene and ethylene with the of hydrocarbon raw materials. Khim. prom. 41 no.2:	ous production of acetylene and ethylene with the of hydrocarbon raw materials. Khim. prom. 41 no.2:			ne (
s production of acetylene and ethylene with the f hydrocarbon raw materials. Khim. prom. 41 no.2:	s production of acetylene and ethylene with the f hydrocarbon raw materials. Khim. prom. 41 no.2:		06	ou.
production of acetylene and ethylene with the hydrocarbon raw materials. Khim. prom. 41 no.2:	production of acetylene and ethylene with the hydrocarbon raw materials. Khim. prom. 41 no.2:		5.	3
eduction of acetylene and ethylene with the	eduction of acetylene and ethylene with the		hy	or
duction of acetylene and ethylene with the	duction of acetylene and ethylene with the		dr	oc
ction of acetylene and ethylene with the	ction of acetylene and ethylene with the			u
ion of acetylene and ethylene with the	ion of acetylene and ethylene with the			e t
n of acetylene and ethylene with the	n of acetylene and ethylene with the		rc	ic
n raw materials. Khim. prom. 41 no.2:	n raw materials. Khim. prom. 41 no.2:		001	'n
raw materials. Khim. prom. 41 no.2:	raw materials. Khim. prom. 41 no.2:			0
w materials. Khim. prom. 41 no.2:	w materials. Khim. prom. 41 no.2:			f
materials. Khim. prom. 41 no.2:	materials. Khim. prom. 41 no.2:			80
iterials. Khim. prom. 41 no.2:	iterials. Khim. prom. 41 no.2:		ME	et
erials. Khim. prom. 41 no.2:	erials. Khim. prom. 41 no.2:		10	ty
ials. Khim. prom. 41 no.2:	ials. Khim. prom. 41 no.2:		er	le
ils. Khim. prom. 41 no.2:	ils. Khim. prom. 41 no.2:			ne
. Khim. prom. 41 no.2:	Khim. prom. 41 no.2:) :
Khim. prom. 41 no.2:	Khim. prom. 41 no.2:			ın
him. prom. 41 no.2:	him. prom. 41 no.2:		A	d K
m. prom. 41 no.2:	m. prom. 41 no.2:			et
prom. 41 no.2:	prom. 41 no.2:	사용 보기 시간		hy m
orom. 41 no.2:	orom. 41 no.2:			14
om. 41 no.2:	om. 41 no.2:			en:
. 41 no.2:	. 41 no.2:			8
41 no.2:	41 no.2:			wi
1 no.2:	1 no.2:			t.
no.2:	no.2:			h 1
).2:).2:		MI	th
?: \ 18:4\)	?: ` 18:4)			ie 1. 2
13:4)	18:4)			2•
· 4)	*4)		18	
)			:2	

ROMANTUK, I.M.; SHEVCHUK, V U.; ZEIIZNYY, A.M.

Effect of the width of Ignition on the process of thermooxidative pyrolysis of methane. Gaz. prom. 10 no.9:40-45 '65. (MIRA 18:11)

A STATE OF THE PARTY OF THE PAR	- The state of the		
	ZELIZNY	Y, A.M.: POMANYUK, I.M.: SHEVCHUK, V.U.	
		increasing the productivity of a single flow reactor of oxidative pyrolysis of methane. Knim. prom. 40 no.12:891-894 D 164. (MIRA 18:2)	

Hartelland,	e the proprinction of tracty for locies to the locies.	11y changing Ja-F (6). (818A 18:2)
	x radiadovateliskiy incitta parkhalogii	ikreba, styev.
	원길 하다 가장 하는 그렇게 하는 것이 없었다.	
보이 다 먹을 싫어. 밝혀내면 뜻	· ^	
	그런 회사를 보세요 하는 하는 하는 사람들은 사람들은 것은 것이다.	
	(교실 등록 등록 등록 한다. 현실 등록 기본 등록 등록 등로 등록	
	성(1985) : [18] 10 [18] 10 [18] 12 [18] 12 [18] 12 [18] 12 [18] 12 [18] 12 [18] 12 [18] 12 [18] 12 [18] 12 [18]	
	하다는 경우 경영하는 아이를 하는데 하는 경향이 되고 있다. 그 사람들이 모르는데 그렇게 되었다. 경우 사람들은 경우 경우 기가 있는데 기가 있다면 하는데 기가 되었다.	
	[보면 등이 발생되는 사람이 가장 사람들을 걸 보다 하는 것이 되었다. 보다 함께 하게 되었다. 보다 보다는 사람들은 사람들은 발생하는 지하는 것이 하게 되는 것이 되었다.	
	공연를 하면 하는 하는데 하는데 등로 하고 있을까요?	
등 마시를 하나를 하다라 살았다.		
보다 시간을 가고 있는데 얼굴을 받는	그렇게 들었다 얼마나 하는데 되었는데 하는데 하다 하는데 했다.	
등은 마시막으리를 살고 있다.		
기업은 사람이 본 수 시간을 했다.	나 주었는 이 아이들은 아이는 그는 이 전 그는 사람들은 살다. 이 없	
그리고 있는 그런 이 보고 있었다.	소개를 잃었다면 하는 사람들이 되면 하는데 하고 있는데 하다 되다.	
	et in die gegien die voor voor die die 1900 in 1905 van die van begeen gebeurd in 1906 die 1905. Het van 1906 van die 1906 van de	
	그렇다는 이 상태를 받는다. 아이들의 김 류를 다	
a Maria da Cara da Car	ation to produce the latest atomic lateral and a real lateral and a few facilities and	and the state of t

4	k, I.Ye.; KUTSENK ating the heating g. Biul.TSIICHM	of stainle	ess steel ingo 2 '61.	ts before (MI	RA 14:10)
	pol'skiy Yuzhnoti (Rolling (Meta		a	ıless)	

y since a standard and the standard and	TR. I.M.; CELTIMY, A.M.; SHEVCHIK, V.U. Investigating incomplete burning in a twisted gas f tunnel acetylene reactor. Caz. pros. 9 no.10:34-40	low in a 164. (MIRA 17:12)
	tuimel acetylene reason.	Thru Tieze
		[BR 2012] 왕호(1) 등록 보는 그는 한 글로
	하는 전에 발전하는 경험을 하는 사람들은 것으로 함께 되었다. 그 사람들은 사람들은 사람들은 사람들이 되었다. 4. 이 전쟁을 하고 하는 사람들이 전쟁을 받았다. 이 전쟁을 하는 것으로 한 사람들은 것으로 하는 것이 없었다.	네 화일을 생활 뿐네면 그 보다
	수 있는 사람들 것이 되었다. 이 사람이 사용하는 것은 것은 것이 되었다. 그는 것은 것이 되었다. 그 것은 것이 없는 것은 것이 없는 것이다. 19 전 10 전 12 분들은 10 전 12 분들은 것이 없어요? 그런 것은 10 전 10 분들은 것이 되었다. 그런 것은 것은 것이 되었다. 그런 것은 것은 것이다.	
	가 있는 사람들은 사람들이 되었다. 그런 사람들이 되었다는 것이 되었다. 그런	() 의 교통 발표를 위하는 경기를 가고 있다고 있다.
	는 사람들이 많은 것이 되었다. 그들은 이 동안에 가장 보는 것이 되었다. 그는 것이 없는 것이 없는 것이 없는 것이 그는 것이 되었다. 그런 그는 것이 되었다. 그는 것이 되었 것이 보다는 것이 되었다. 그는 것이 되었다.	
	사람이 많은 사람들이 사람들은 사람들이 되는 것이 되었다면 되었다. 	
		보통자를 하늘 문화로 시간함
	한 경기 등 시간 경기 등 시간 기계 등 전 경기 등 시간 경기 등 시간 경기 등 경기	
	발문 등 등 시대를 받는다고 있다. 그는 그는 그는 그는 그를 다 살아 있다.	
	그 이 그는 그리는 경우를 가는 사람들이 되었다면 밝은 사람들이 되었다.	송화남화학 위하는 이번 이 호로
	교육 다양 관련 한국 사람들이 관심하는 항목 보다가 모임을 하고 있다.	철저는 문항을 찾으면 하고 있다면 하고?
	그는 이 본 경우를 하다면 하는 것이 없는 것으로 하는 것이 되었다.	
	경기가 되는 그리고 하는데 가는 아들의 가는데 살아 들어갔다.	

BALYTA, V.I.; ZELIZNYY, A.M.; ROMANYUK, I.M.; SHEVCHUK, V.U.

Layout of equipment for the production of acetylene by the oxidation pyrolysis of methane. Gaz.prom. 4 no.9:36-41 S (MIRA 12:11)

(Acetylene) (Methane)

				.1.; 1.77		14.1				
		courts of cordin ritodoum.	g sounds Probl.	in Subercul tub. No.2,	osis 1952	luring	irestient	wich artific	ial	
9.	Mont	hly List (of Russia	n Accession	s, Lit	orary O	f Congress	i, inggat	195 , 2	Uncl.
			e de maior de la composición dela composición de la composición de la composición de la composición dela composición dela composición dela composición dela composición del composición dela composición d		Majarini		eren ya ta derek			And Annual Control of the Control of

RILY STITE U HENT F. G. SHEWCHERTO. RIEV, 1955.

GOLDNYUK [.T.

ROMANUK, I. T. -- "Problems of the Psychology of Sensation in the Works of
I. R. Sechenov and I. P. Paylov." Min Higher Education Ukrainian
SSR. Kiev State U immi T. G. Shevchenko. Kiev, 1955.

(Dissertation for the Degree of Cardidate in Pedagogical Sciences.)

So; Knizhaya Letopis' No 3, 1950

	Apparatus for kymographic 5 no.1:147-148 Ja-F 159. (Electrokymography)	records of speech responses. (SpeechPsychological aspec	Vop.psikhol. (MIRA 12:4) ets)
그는 그래도 사이를 만든 학교에 대한 사람들은 전쟁 환경을 가장 하면 하면 하는 사람들이 함께 살아 없는 것이 되었다. 그는 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은			

LANDISBERG, Ya.I.; CORUK, Z.I.; MUSIY, Ye.R.; ROMANYUK, L.M. (Kremenets, Ternopol'skoy obl.)

Use of inhalations of aerosol expectorants for the diagnosis of tuberculosis. Vrach.delo no.7:745-747 Jl '59. (MIRA 12:12)

1. Kremenetskiy protivotuberkuleznyy dispansar. (TUBERCULOSIS—DIAGNOSIS)

(AEROSOLS)

EELAYA, V. M.; ROMANYUK, L. M.; LANDISEERG, YA. I.

Tuberculosis

Changes of cardiac sounds in tuberculosis during treatment with artificial pneumoperitoneum. Frobl. tub. No. 2, 1952.

9. Monthly List of Russian Accessions, Library of Congress, August XKGG. Unclassified.

27960 S/185/61/006/004/002/015 D274/D303

26.2331 AUTHORS:

Gabovych, M.D. and Romanyuk, L.I.

TITLE:

Plasma ejection by electrodeless pulse-discharge

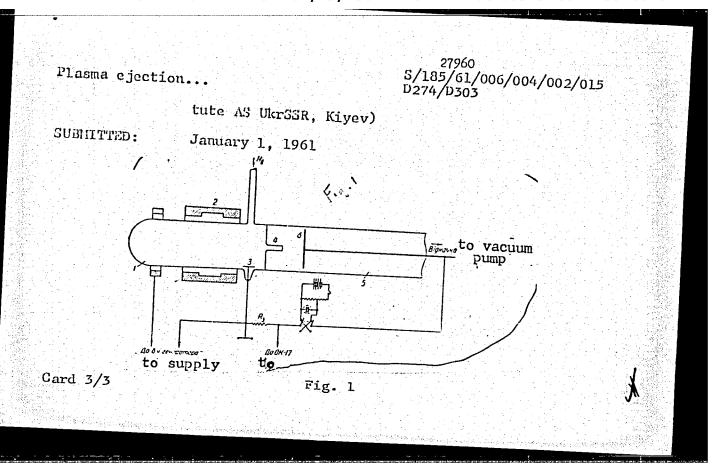
in a vacuum

PERIODICAL:

Ukrnyins'kyy fizychnyy zhurnal, v. 6, no. 4, 1961,

Experiments are described with bursts of plasma in a narrow TEXT: channel. Fig. 1 shows the experimental setup used. In glass tube 1 a discharge takes place at a pressure of 4·10⁻² mmHg in region 1, and of below 1·10⁻⁴ mmHg in region 5. The current related to the plasma-bursts was measured by moving electrode 6. Oscillograms were taken of the voltage drop across resistor 3 (which is part of the same circuit as 6). Oscillograms are shown of the current in circuit 6 at various voltages of the capacitor battery. The same figures show a plot of the time-derivatives of the exciting fieldstrength H. Another figure shows the dependence of the electron

Card 1/3



20668

S/057/61/031/001/013/017 B104/B204

26,2021

Card 1/7

AUTHORS: Gabovich, M. D., Pasechnik, L. L., and Romanyuk, L. I.

TITLE: The boundary of a penetrating plasma and plasma focusing

PERIODICAL: Zhurnal tekhnicheskoy fiziki, v. 31, no. 1, 1961, 87-93

TEXT: The authors describe a probing method for determining the boundary of a penetrating plasma. The experimental arrangement shown in Fig. 1 consists of a pulsed ion source with electron oscillations in a magnetic field. The discharge current attains 40 a, the ion pulses have a rectangular shape, the pulse repetition frequency is 50 cps, and the magnetic field strength is about 300 oersteds. The discharges were produced in hydrogen at a pressure of $5 \cdot 10^{-9}$ mm Hg. The plasma coming from the source passes through an opening in an electrode (9), and reaches a lens consisting of two cylinders (10) and (11) (inner diameter of the cylinder: 120 mm; L = 120 mm; distance Δ L: 20 mm). Electrode (11) has a negative potential of $U_0 = 50$ ky relative to electrode (10). A beam catcher prevents secondary electron emission from electrode (11). Probes (7) and (8) could be shifted. The signal coming from the probes was amplified

20068

The boundary of a penetrating

S/057/61/031/001/013/017 B104/B204

and fed into a peak generator. The output signal of this peak generator was conveyed to a recorder, whereby the spatial distribution of the probe current could be recorded. From the axial and radial distributions of the plasma parameters near the opening, which are shown in Figs. 4 and 5, it follows that an increase of the negative potential of electrode (11) up to U = 30 ky produces no effect upon the distribution of the plasma

parameters. At a greater distance from the opening, determination of the plasma parameters is more difficult. The authors confined themselves to determining the plasma boundary, and, for this purpose, they applied a potential of 100 v to the probe relative to electroles (5) and (9); the probe current was automatically recorded. In this way, a plasma boundary could be clearly determined. This boundary is at a distance of about 10-15 mm from the opening and manifests itself in a change in the drop of the probe current. Up to approximately 10 mm, the probe current drops exponentially; at larger distances a greater drop occurs (Fig. 6). In this way, it is possible to determine the plasma boundaries for various conditions. As may be seen from a close study of the plasma boundaries, the shape and position of the plasma boundary change with a change in U, which is equal to a change in the focusing properties of the system. Card 2/7

The boundary of a penetrating ..

S/057/61/031/001/013/017 B104/B204

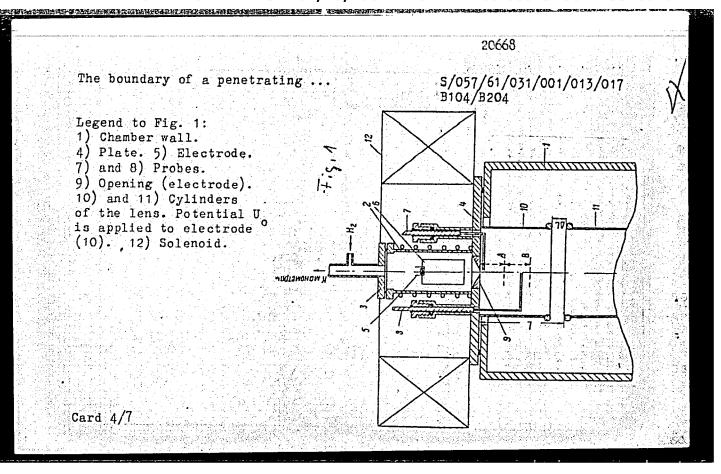
If the plasma boundaries are simulated with metal electrodes of corresponding configuration, it is possible, conditions being suitable, to construct the ion trajectories (Fig. 9). From this figure it may be seen that by increasing the potential and extending the plasma boundary, the ion current focused in the beam catcher may be increased. Fig. 10 graphically represents the experimental dependence of the ion current on the potential U. There are 12 figures, 1 table, and 7 references: 4 Soviet-bloc and 2 non-Soviet-bloc.

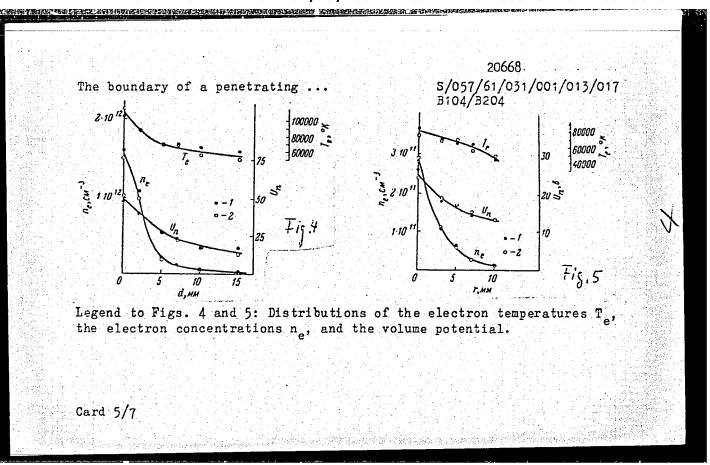
ASSOCIATION: Institut fiziki AN USSR Kiyev

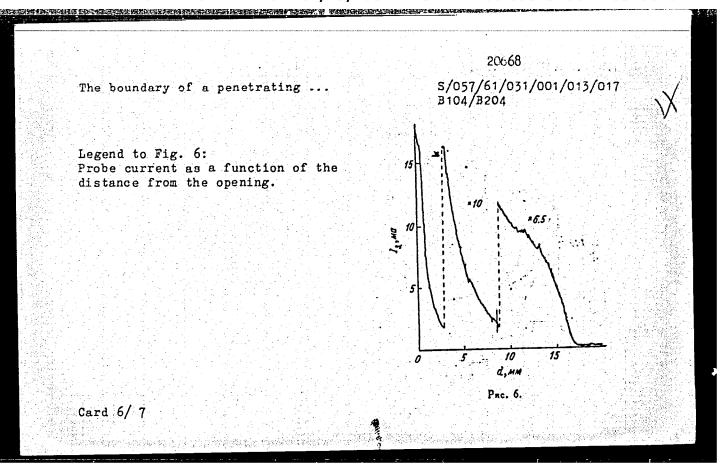
(Institute of Physics AS UkrSSR, Kiyev)

SUBMITTED: June 1, 1960

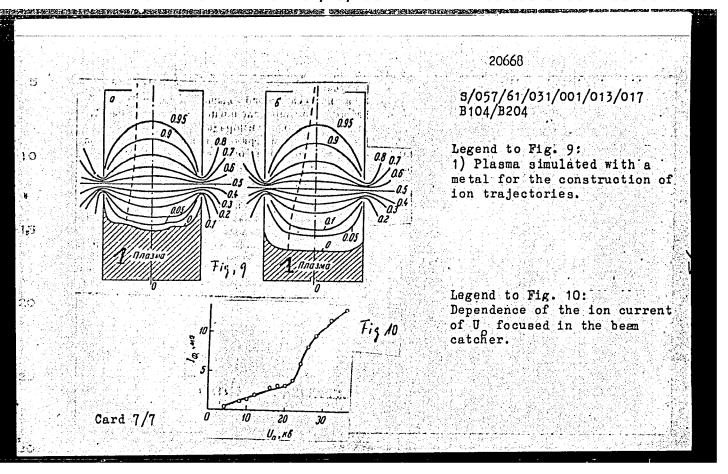
Card 3/7







"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445310018-4



24, 2120 (1049,1482,1502) 108000

20924 \$/057/61/031/003/008/019 B125/B202

26.2021

Gabovich, M. D. and Romanyuk, L. I.

TITLE:

AUTHORS:

Effect of a magnetic field on the shape of the boundary of a penetrating plasma and on plasma focusing

PERIODICAL: Zhurnal tekhnicheskoy fiziki, v. 31, no. 3, 1961, 315-320

TEXT: The authors demonstrate that a magnetic field may considerably influence the shape of the boundary of a penetrating plasma. According to the configuration of the boundary concerned the magnetic field may improve or impair plasma focusing. The development of new methods of controlling the shape of the plasma boundary is of concern. The apparatus used for these experiments has been described already by M. D. Gabovich, L. L. Pasechnik, L. I. Romanyuk, (ZhTF, 31, 87, 1961). It is illustrated once again in Fig. 1. Like in earlier studies the authors used a pulsed ion source with a duration of pulses of 100 microseconds and with a frequency of 50 pulses/sec. In this case the plasma penetrated into the plasma lens consisting of electrodes 6 and 7 through a hole in electrode 4. The plasma boundary was determined by two probes 2 and 3. Fig. 2

Card 1/4

20924

5/057/61/031/003/008/019 B125/B202

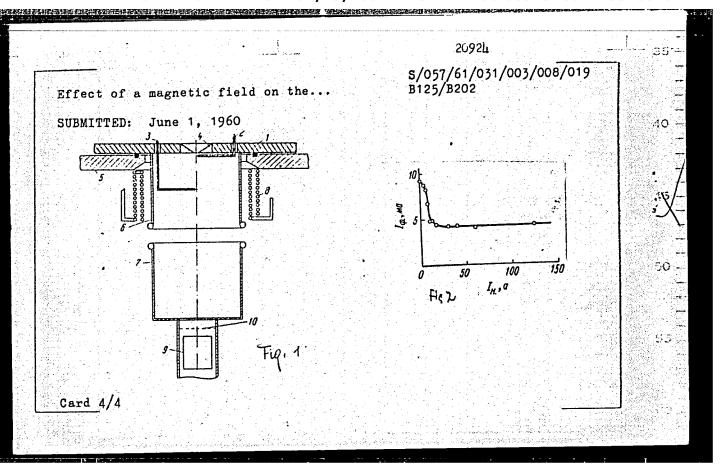
Effect of a magnetic field on the ...

shows the dependence of the amperage $I_{\overline{D}}$ measured in the beam catcher on the magnetic field strength produced by the solenoid. With an intensification of the magnetic field I decreases already with very weak magnetic fields. Fields with some dozens of cersteds are already sufficient for a considerable reduction of the ion current focused into the beam catcher. The configuration of the boundary of the penetrating plasma is changed as a result of its contraction and may impair the focusing properties of the system. Also a weak magnetic field may disturb plasma focusing, however, at least two cases exist where the magnetic field improves the focusing of the ions: 1) Focusing with lacking magnetic field under exclusive action of an electric field. 2) If the magnetic field in the discharge chamber of the source considerably penetrates into the region of the plasma to be studied. In the last chapter the author describes a ring-shaped plasma source. The following problem is dealt with: Let us replace the sole opening with its center on the axis of the source by several openings which lie on a concentric circle. Is the intensity of the plasma near the axis of the lens weakened and is the concentration thus distributed over the plasma surface? In what manner is the quality

Card 2/4

s/057/61/031/003/008/019 Effect of a magnetic field on the ... of plasma focusing affected? For this purpose the central opening was replaced by 6 openings lying on a circle with a radius of 19mm; the ion source, however, remained the same. In the case of the holes circularly arranged the density of the ion current was considerably lower than with one central opening (in the cases studied here $j_p = 65 \text{ ma/cm}^2$ and $j_p = 440 \text{ ma/cm}^2$). In the case of circularly arranged holes more than 70 % of the total ion flux could be focused into the beam catcher. With the concentrically circularly arranged holes the configuration of the plasma boundary is much more concave than in the case of a single central opening. Also in this case the magnetic field impairs the focusing of the plasma since the plasma is contracted and a projection is formed on the concave boundary of the plasma. The authors conclude that the best results can be obtained by passing the plasma through openings which are at a certain distance from the axis of the source. In some cases such systems are less sensitive to the effect of magnetic fields. There are 12 figures and 3 Soviet-bloc references ASSOCIATION: Institut fiziki AN USSR, Kiyev (Institute of Physics AS UkrSSR, Kiyev) Card 3/4

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445310018-4



S/185/63/008/001/008/024

AUTHORS:

Mabovych, M. D., Lozova, O. O. and Romanyuk, L. I.

TITLE: Possibility of location of the boundary of penetrating plasma by a beam of charged particles

PERIODICAL: Ukrayins'kyy fizychnyy zhurnal, v. 8, no. 1, 1963,

57-59

If a beam of electrons passing through plasma and falling TEXT: on a fluorescent screen is displaced away from the ion source, the bright spot on the screen will also be displaced in the same direction until the beam reaches the plasma boundary, and then in the opposite direction owing to the reflection of the beam at the boundary. By varying the inclination of the beam one can determine the position and the shape of the boundary. The authors describe an experimental installation which they used for checking this method. Data agree well with those obtained by the probe method if the potential is not too high. The error at high potentials is explained by the fact that the boundary becomes convex, and use of Card 1/2

		6/-727	
Possibility	of location	S/185/63/008/001/008/024 D234/D308	
heavy nesati There are 3	ve ions instead of el figures.	lectrons is suggested in this case.	
ASSOCIATION:	Instytut fizyky AN AS UkrSSR), Kiev	URSR (Institute of Physics of the	
SUBMITTED:	August 3, 1962		
ard 2/2			

ACCESSION NR: AP3002130

s/0185/63/008/006/0707/0708

AUTHOR: Paderno, Yu. B.; Romanyuk, L. I.; Fomenko, V. S.

TITLE: Utilization of lanthamm hemsboride as the cathods of an ion source

SOURCE: Ukrains'kyy fizychnyy zhurnal, v. 8, no. 6, 1963, 707-708

TOPIC TAGE: lanthamum hexaboride cathode, method of preparation, use in ion sources

ABSTRACT: The suitability of lanthamm hematoride as a cathode of an ion source with electron oscillations in a magnetic field was investigated. The LaB sub 6 powder was obtained through reduction of La sub 2 0 sub 3 by boron in a vacuum of 10 sup =2 mm Hg at 1600c for 1 hr. The composition of the LaB sub 6 powder was as follows: La, 68.5%; B, 30.7%; and C, 0.11%. Tablets 6 mm in diameter and 1.5 mm thick were pressed from the powder. The tablets were cleaned and heated slowly up to 1800c in vacuum and held at this temperature for about 3 hr. Then they were slowly cooled and polished. The porosity of the tablets was 9 to 22%. During helium-discharge experiments, the discharge voltage, current, and magnetic

Card 1/2

ACCESSION HR: AP3002130

field were 200 v, 1.5 amp, and 900 ce, respectively. The density of discharge current on the cathode was 5.3 amp/cm sup 2. The density of ion current at the output of the source was 0.3 amp/cm sup 2. The life of the cathode was 30 to 40 hr. During discharge in hydrogen at a similar current density, the cathode did not operate as stably as in helium, and its life was only 5 to 10 hr. Orig. art. has: 1 formula.

ASSOCIATION: Insty*tut fizy*ky* AN URER (Physics Institute AN URER); Insty*tut metalokeramiky* i spetssplaviv AN URER, Kiev (Institute of Powder Metallurgy and Special Alloys AN URER)

SUBMITTED: 21Dec62

DATE ACQ: 1271163

ENCL: 00

SUB CODE: 00

NO REF BOY: 002

OTHER: OOL

Ont. Problems of Material Sec.

Card 2/2

ACCESSION NR: AP4020578

S/0057/64/034/003/0488/C495

AUTHOR: Gabovich, M.D.; Romanyuk, L.I.; Lozovaya, Ye.A.

TITLE: Escape of plasma from an oscillating electron source into vacuum in the presence of a magnetic field

SOURCE: Zhurnal tekhnicheskoy fiziki, v.34, no.3, 1964, 488-495

ODPIC TAGS: plasma, plasma source, oscillating electron plasma source, plasma in magnetic field, probe measurements, thermal probes, plasma escape

ABSTRACT: The escape of a helium plasma from an oscillating electron source into vacuum was investigated experimentally in the presence of a magnetic field. The source employed a 6-mm diameter indirectly heating cathode on the axis of a 3-cm diameter cylindrical anode. The reflecting electrode was located 6 cm from the cathode, was kept at cathode potential, and had a 3-mm diameter opening for plasma escape. The glass vacuum chamber was about 12 cm in diameter and 27 cm long. Gas pressures of 2×10^{-2} and 2×10^{-4} mm Hg were maintained in the source and the vacuum chamber respectively. Anode potentials from 150 to 200 V were employed with discharge currents from 1.0 to 1.5 A. The source and vacuum chamber were located in a

Card //# 2

ACC. NR: AP4020578

uniform longitudinal magnetic field of 1000 Oe or less. The escaping plasma was investigated with probes of various types. In spite of the strong magnetic field, the ion current in the escaping plasma was not confined to the axis of the chamber but extended several centimeters from the axis. The ion current was due mostly to ordered motion, the current due to chaotic motion being very small. Most of the ions had energies roughly equal to the cathode drop in the discharge. There was a small admixture of lower energy ions. The distribution of electrical potential in the excaping plasma was determined with the aid of two types of thermal probe. At a fixed distance from the source the potential, as a function of the radius, showed a minimum on the axis of the chamber and a maximum some millimeters off the axis. On the axis the potential (with respect to the cathode and reflector) was large and positive near the source and fell rapidly to zero within a few centimeters. At the axis of the chamber an insulated probe assumed a large negative potential of several tens of volts. This potential increased in absolute value (became more negative) as the distance from the source was increased. When the probe was moved off the axis, the potential first fell rapidly to zero and then became positive. This behavior is interpreted as indicating the presence of a narrow beam of fast electrons produced by interaction of the electron current with the plasma within the source. Orig.art. has: 3 formulas and 7 figures.

Card 2/32

E-27599-65 EWT(1)/EPA(sp)-2/EPF(c)/EPA(w)-2/EEC(t)/T/EWA(m)-2 Pz-6/po-4/Pab-10/ Pr-4/Pi-4 IJP(c) WW/AT

ACCESSION NR: AP5003241

8/0057/65/035/001/0094/0100

AUTHOR: Gabovich, M.D. / Romanyuk, L.I. / Lozovaya, Ye.A.

72 46 p

TITLE: Formation of a quasineutral beam of accelerated ions in the plasma issuing from an ion source λ

SOURCE: Zhurnal tekhnicheskoy fiziki, v.35, no.1, 1965, 94-100

TOPIC TAGS: plasma, ion beam, ion source, ion acceleration

ABSTRACT: This paper reports a continuation of previous work of the authors (ZhTF 34,488,1964) concerning the reflex discharge ion source. The apparatus is similar to that described in the earlier paper, with such modifications as were required for the particular experiments performed. The apparatus was operated under a variety of conditions, the current-voltage characteristics were measured, and particular attention was given to the potential gradient in the plasma beam issuing from the source. The principal conclusion is that the following conditions are requisite for obtaining ions with energies corresponding to the cathode drop; the issuing plasma must contain an intense beam of primary electrons with appropriate velocity distribution; the plasma must issue from the chamber into a region of suf-

Card 1/2

ACCESSION NR: AP5003241		
ficiently high vacuum; there discharge chamber that could has: 6 figures.	must be not positively charg remove electrons from the is	ed electrode outside the suing plasma. Orig.art.
ASSOCIATION: Institut fiziki	AN UkrSSR, Kiev (<u>Institute c</u>	
SUBMITTED: 24Feb64	ENCL: 00	SUB CODE: ME, NP
NR REF SOV: 005	OTHER: 003	
		。"""这一个大大的,我们也没有一个人的,我们就是一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个

GABOVICH, M.D.; ROMANYUK, L.I.; LOZOVAYA, Ye.A.

Formation of a quasi-neutral beam of accelerated ions in a plasma emerging from an ion source. Zhur. tekh. fiz. 35 no.1:94-100 Ja 165. (MIFA 1E:3)

1. Institut fiziki AN UkrSSR, Kiyev.

L-41356-65 EVT(1)/EWP(e)/EWT(m)/EPF(c)/EPF(n)-2/EWG(m)/EPR/EPA(w)-2/T/EWP(t)/ EWP(b)/EVA(m)-2 Pab-10/Pr-4/Ps-4/Pu-4 IJP(c) JD/WW/JG/AT/WH ACCESSION NR: AP3002130 S/0185/63/008/004/0707/070853	
AUTHOR: Paderno, Yu. B.; Romanyuk, L. I.; Fomenko, V. S. TITLE: Utilization of lanthanum nexaboride as the cathode of an ion source	
SOURCE: Utilization of Lanthanum nexaboride as the cathode of an Lon source	
TOPIC TAGS: lanthanum hexaboride cathode, ion source	
ABSTRACT: The suitability of lanthanum hexaboride as a cathode of an ion source with electron oscillations in a magnetic field was investigated. The LaB sub 6 powder was obtained through reduction of La sub 2 0 sub 3 by boron in a vacuum of 10 sup -2 mm Hg at 1650C for 1 hr. The composition of the LaB sub 6 powder was as follows: La, 68.5%; B, 30.7%; and C, 0.11%. Tablets 6 mm in diameter and 1.5 mm thick were pressed from the powder. The tablets were cleaned and heated slowly up to 1800C in vacuum and held at this temperature for about 3 hr. Then they were slowly cooled and polished. The porosity of the tablets was 9 to 22%. During helium-, 7 discharge experiments, the discharge voltage, current, and magnetic field	
Card 1/2	

vere 200 v, 1.5 amp, and 900 ecurrent on the cathode was 5.3 the output of the source was 0	amp/cm sup 2. The density	of the cathode was	
the output of the sold of the 30 to 40 hr. During discharge the cathode did not operate as to 10 hr.	i in hydrogen a similar cur		
M. TO III.		15. 2016年 17. 15. 15. 15. 15. 15. 15. 15. 15. 15. 15	
ASSOCIATION: Instytut fizyky	PADTRATA VV huout vraa (TI	AN URSR); stitute of Powder	
	PADTRATA VV huout vraa (TI	AN URSR); stitute of Powder SUB CODE: NP,IC	
SSOCIATION: Instytut fizyky Instytut metalokeramiky i spet Metallurgy and Special Alloys	AN URSR)		

ROMANYUK, L.I., kand.tekhn.nauk; RABINOVICH, M.I., kand.tekhn.nauk

Problem of the thermal stability of lignite found in the Ukrainian S.S.R. Trucy Inst.tepl.AN URSR no.10:53-57 '53. (MIRA 13:5) (Ukraine--Lignite--Thermal properties)

E-3

GENERAL TO THE PROPERTY OF THE

Czechoslovakia/ Organic Chemistry - Naturally occuring substances

and their synthetic analogs

Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 11825

Author : Romanuk Miroslav, Herout Vlastimil, Sorm Frantisek
Title : On Terpenes. LXIX. Structure of Dehydrokostuslactone.

Orig Pub: 0 terpenech. LXIX. Konstituce dehudrokostuslaktonu. Chem. listy, 1955, 49, No 12, 1879-1885 (Czech); Sb chekhosl. khim. rabot, 1956, 21, No 4,

894-901 (English; Russian summaries)

Abstract: Dehydrokostuslactone (I) (from Saussurea lappa Clarke) yields on hydrogenation a hexahydro-derivative (II), which was identified, by its infrared spectrum, as guaianolide (see RZhKhim, 1954, 27127). On dehydrogenation of I gives hamazulene (III), while dehydrogenation of II yields a mixture of S-guaiazulene (IV), Se-guaiazulene (V), III and 2,4-dimethyl-7-ethylazulene (VI). Ether solution of kostus oil was washed with bicarbonate, saponified by boiling with NaOH, solution of the salts washed with ether, and by acidification reconverted into lactone, which was washed free from phenols with cold alkaling these contents.

which was washed free from phenols with cold alkali; thus was obtained \underline{I} , BP 140-1430/0.5 mm, MP 610, $\boxed{\cancel{\cancel{-}}}$ 20D - 12.90. On hydrogenation of \underline{I}

Card 1/2

Czechoslovakia/ Organic Chemistry - Naturally occuring substances and their synthetic analogs

E-3

Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 11825

with PtO2 in glacial CH3COOH was obtained II, BP 135-1370/0.4 mm,

 $n^{20}D$ 1.5076, d_4^{20} 1.0545, $\mathcal{L}^{20}D + 46.5^{\circ}$. 11.4 g II and 11.6 g Se

heated to $320-335^{\circ}$ and from the products was recovered, by chromatography on Al_2O_3 and extraction with 79% solution of H_3PO_4 , a mixture

of azulenes which, by means of paper chromatography (impregnated with paraffin oil and washed with 48% $\rm H_3PO_4$), was separated into IV, V,

III, trinitrobenzolate MP 130°, and VI, trinitrobenzolate MP 112°. Presented are infrared spectra of \underline{I} , II, VI, visible and ultraviolet spectra of VI.

Card 2/2

ACC NR: ARG035045

SOURCE CODE: UR/0058/66/000/008/D091/D091

AUTHOR: Vyshnevs'kyy, V. N.; Kulik, L. M.; Romanyuk, M. O.

TITLE: Optical properties of some alkali halide crystals in the spectral range

2000 to 800 Å

SOURCE: Ref. zh. Fizika, Abs. 8D707

REF SOURCE: Visnyk L'vivs'k. un-tu. Ser. fiz., no. 2, 1965, 32-34

TOPIC TAGS: optic property, crystallization, sodium iodide crystal, lithium fluoride crystal, single crystal, alkali halide crystal

ABSTRACT: The reflecting power of sodium iodide thallium and lithium fluoride single crystals have been measured in the energy field 6—15 ev. The effect of changes of the crystallization temperature and chemical activity of salts on their reflecting power is observed. [Translation of abstract]

SUB CODE: 20/

Card 1/1

EWT(1)/T/EEC(b)-2 Pi-4 IJP(c) S/0185/65/010/002/0222/0223 L 38091-65 AP5005917 ACCESSION NR: Vyshnevs'kyy, V. N.; Vus, Ya. M.; Kulyk, L. M.; Marchuk, Ye. P.; AUTHOR: M. O. TITLE: Determination of reflection spectra in the vacuum region of the spectrum SOURCE; Ukrayins'kyy fizychnyy zhurnal, v. 10, no. 2, 1965, 222-223 TOPIC TAGS: reflection spectrum, ultraviolet, vacuum ultraviolet, spectrograph, potassium chloride, potassium bromide, single crystal ABSTRACT: The article describes apparatus for the determination of the spectra of reflection from solids in the region of vacuum ultraviolet, using a DFS-5 spectrograph. The apparatus makes it possible to obtain the reflection spectrum for an angle of incidence of 45° in the entire 2000-500 A range of the spectrograph. The apparatus is shown in Fig. 1 of the Enclosure. By way of an example, the authors show the reflection spectra of KCl and KBr single crystals in the 2000-1000 A range. The results are in good agreement with the data of H. R. Phillip and H. Enrenreich (Phys. Rev. v. 131, 2016, 1963). Whatever differences are observed are due to the increase in the reflecting ability of these crystals in the short wave Card 1/32

L 38091-65 ACCESSION NR: AP5005917 region. A similar effect in cidence is observed also for 1891, 1963). "We thank B. O. has: 2 figures.	Belikovich for supplying	the crystals." Crig. art.
ASSOCIATION: L'vivs'kyy der:	huniversytet im. I. Franks Pvov State University)	
SUBMITTED: 115ep64	ENCL: 01	SUB CODE: OP
NR REF SOV: 000	other; 002	

ROMANYM, N., sportsmen-parashyutist 1-go razwyada Parachute map of an airfield. Kryl. rod. 15 no.8:29 Ag '64 (MIRA 18:1)		Pa	
ROMANYER, N., sportsmen-parashyutist 1-go rezwyada Parachute map of an girfield. Kryl. rod. 15 no.8:29 Ag '64 (WIRA 18:1)		Pa	
ROMANYOK, N., sportsmen-parashyutist 1-go rezryada Parachute map of an airfield. Kryl. rod. 15 no.8:29 Ag '64 (MIRA 18:1)		Pa:	
HOMANYAR, S., sportsmen-parashyutist 1-go rezryada Parachute map of an airfield. Eryl. rod. 15 no.8:29 Ag '64 (MIRA 18:1)		Pa	
ROMANYON, sportsmen-parashyutist 1-go razwyada Parachute map of an airfield. Kryl. rod. 15 no.8:29 Ag '64 (MIRA 18:1)		Pa	
OMANYME, N., sportsmen-parashyutist 1-go rezwyada Parachute map of an airfield. Kryl. rod. 15 no.8:29 Ag 164 (MIRA 18:1)		Par	R
AHYM, N., sportsmen-parashyutist 1-go razwyada Parachute map of an airfield. Kryl. rod. 15 no.8:29 Ag '64 (MIRA 18:1)		Pa	OM
Y.K.,N., sportsmen-parashyutist 1-go rezwyada Parachute map of an airfield. Kryl. rod. 15 no.8:29 Ag '64 (MIRA 18:1)		Pa	All
K.N., sportsmen-parashyutist 1-go razzyada Parachute map of an airfield. Kryl. rod. 15 no.8:29 Ag '64 (MIRA 18:1)		Pa	Ϋ́
N., sportsmen-parashyutist 1-go rezwyada arachute map of an airfield. Kryl. rod. 15 no.8:29 Ag '64 (MIRA 18:1)		દા	K,
g sportsmen-parashyutist 1-go razryada pachute map of an airfield. Kryl. rod. 15 no.8:29 Ag '64 (MIRA 18:1)			н.
sportsmen-parashyutist 1-go rezryada Shute map of an airfield. Kryl. rod. 15 no.8:29 Ag '64 (MIRA 18:1)		`` '&!	,
cortsmen-parashyutist 1-go rezryada		Ma	9
rtsmen-parashyutist 1-go rezryada e map of an airfield. Kryl. rod. 15 no.8:29 Ag '64 (MIRA 18:1)		ut	po
smen-parashyutist 1-go rezryada map of an girfield. Kryl. rod. 15 no.8:29 Ag '64 (WIRA 18:1)		e •	rt
en-parashyutist 1-go rezwyada p of an airfield. Kryl. rod. 15 no.8:29 Ag '64 (WIRA 18:1)		ma	an
n-parashyutist 1-go razryada of an airfield. Kryl. rod. 15 no.8:29 Ag '64 (HTRA 18:1)		þ	ıer
perashyutist 1-go rezryada f an airfield. Kryl. rod. 15 no.8:29 Ag '64 (MIRA 18:1)	· (1) 10 15 15 16 17 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	o) -
reshyutist 1-go rezwyada an airfield. Kryl. rod. 15 no.8:29 Ag '64 (MIRA 18:1)	사용하다 (1997년 1997년 1997	r	Þ
ashyutist 1-go rezwyada n girffeld. Kryl. rod. 15 no.8:29 Ag '64 (MIRA 18:1)	・ はまった。 かんかい まんしかい コンド・マンド・アンド・アンド はいかい かいしゅう アンド・アンド・アンド・アンド・アンド・アンド・アンド・アンド・アンド・アンド・	ar	ıra
hyutist 1-go rezryada eirfield. Kryl. rod. 15 no.8:29 Ag '64 (MIRA 18:1)		1	9.5
ntist 1-go rezwyada rfield. Kryl. rod. 15 no.8:29 Ag '64 (MIRA 18:1)		ai	hy
tist 1-go rezryada field. Kryl. rod. 15 no.8:29 Ag '64 (MIRA 18:1)		r	⁄u
st 1-go rezryada eld. Kryl. rod. 15 no.8:29 Ag '64 (MIRA 18:1)		£1	hi
d. Kryl. rod. 15 no.8:29 Ag '64 (MTRA 18:1)	(1) 전환 10 시간 10	el	st
-go rezryade Kryl. rod. 15 no.8:29 Ag '64 (MTRA 18:1)		d.	. 1
go rezryade (ryl. rod. 15 no.8:29 Ag '64 (WIRA 18:1)	(A) 보고 보고 보고 보고 있는 경기에 되었다. 그 보고	, ,	-(
rezryads yl. rod. 15 no.8:29 Ag '64 (WIRA 18:1)		(r	30
ezryads . rod. 15 no.8:29 Ag '64 (MIRA 18:1)		y 1	r
rod. 15 no.8:29 Ag '64 (MIRA 18:1)			·#.2
yads od. 15 no.8:29 Ag '64 (WIRA 18:1)		r	m,
de . 15 no.8:29 Ag '64 (WIRA 18:1)		od	yε
15 no.8:29 Ag '64 (XIRA 18:1)		•	de
5 no.8:29 Ag 164 (WIRA 18:1)		1	
no.8:29 Ag 164. (WIRA 18:1)	으로 보는 기계 시간	5 :	
.8:29 Ag 164. (WIRA 18:1)		10	
:29 Ag 164, MTRA 18:1)		8.	
9 Ag '64 RA 18:1)		:2 M1	
Ag '64 (18:1)	からの はいない はんしゅう かんしゅう はいしゅう かんしょう しんしゅう はんしょう しゅうしゅう しょうしゅうしゅう しょうかい かんしゅう かんしゅう かんしゅう かんしゅう かんしゅう かんしゅう かんしゅう しゅうしゅう しゅうしゅう しゅうしゅう しゅうしゅう しゅうしゅう しゅうしゅう しゅうしゅう しゅうしゅう しゅうしゅう	9 3/	
3g '64 18:1)		1	
'64 B:1)		ig 1	
64		1 3:	
		64 1)	
,是一个人,就是一个人,就是一个人,也是一个人,就是一个人,就是一个人,也是			
,如果我们就是一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个			
	· 현실 시간 시간 시간 시간 기업 시간		

CIA-RDP86-00513R001445310018-4 "APPROVED FOR RELEASE: 07/19/2001 CITAL TO THE PERSONAL PROPERTY OF THE PROPERTY

ACC NR: AP7003615

SOURCE CODE: UR/0185/66/011/012/1345/1349

AUTHOR: Vyshnevs'kyy, V. N. -- Vishnevskiy, V. N.; Kulyk, L. M. -- Kulik, L. N.

Romanyuk, M. O. --Romanyk, N. A.

ORG: Lvov State University im. I. Franko (L'vivs'kyy derzhuniversytet)

TITLE: Structure of the fundamental absorption bands of mixed potassium chloride and potassium bromide single crystals

SOURCE: Ukrayins'kyy fizychnyy zhurnal, v. 11, no. 12, 1966, 1345-1349

TOPIC TAGS: absorption band, potassium chloride crystal, potassium bromide crystal, mixed crystal, ionic crystal, ion interaction

ABSTRACT: An investigation was made of the reflection spectra of a system of mixed potassium chloride and potassium bromide single crystals in the region 2000-900 Å. The intensity of the long-wave fundamental absorption bands of "pure" and mixed crystals was also estimated. The results of the investigation are compared with the conclusions of the existing models of interaction of ionic crystals with radiation. Orig. art. has; 2 figures and 1 table. [Authors' abstract] SUB CODE: 20/SUBM DATE: 16 Mar66/ORIG REF: 004/OTH REF: 025/

1/1 Card

CIA-RDP86-00513R001445310018-4 "APPROVED FOR RELEASE: 07/19/2001 HERY DEPARTMENTS OF THE PROPERTY OF THE PARTMENT OF THE PROPERTY OF THE PROPER

SOURCE CODE: UR/3232/66/000/003/0099/0104 (N) ACC NR: AT6034606

AUTHOR: Gayvoronskiy, Ya. S.; Rudnaya, A. I.; Romanyuk, N. A.; Silkina, T. S.

ORG: none

The transfer of the state of th

TITLE: A study of silicon photodiodes as the sensitive elements in pyrometers

SOURCE: L'vov. Politekhnicheskiy institut. Kontrol'no-izmeritel'naya tekhnika, no.

TOPIC TAGS: silicon diode, photodiode, radiation pyrometer, radiation sensitivity, temperature sensitive element

ABSTRACT: Pyrometers directly measuring a variable proportional to the change in parameters of the radiation receiver are widely used to solve problems in monitoring temperature regimes. Lead sulfide photoresistors, semiconductor photocells, and germanium and silicon photodiodes are used as the radiation receivers in these pyrometers. Silicon and germanium photodiodes are advantageously distinguished by their small size, simplicity, and high sensitivity. Especially promising are silicon photodiodes which can operate in ambient temperatures of 80° to +150°C and are -sensitive to radiation energy at frequencies in the range of spectral absorption of water vapor and carbon dioxide gas. Because of the use of photodiodes in temperature sensors it became necessary to study the parameters and characteristics of photodiodes with respect to stability of photocurrent, spectral sensitivity, and photocurrent This paper studies dependence on load resistance at various ambient temperatures. Card 1/2

ACC NR: AT6034606

silicon photodiodes of different designs and manufacturing technique in order to determine their use in radiation pyrometry. The results obtained indicate that silicon photodiodes made by the diffusion technique are most suitable for use in pyrometers directly measuring a signal because they are of good stability. The temperature error of diffusion photodiodes, which is greater than that of those made by the alloy technique, may be reduced by using proper light filters. The authors operate with the fundamental relationship defining short-circuit photodiode photocurrent as a function of the radiation energy of a black body at a certain temperature:

$$I_{\tau} = K \int_{\lambda}^{\tau} b_{\lambda \tau}^{0} \gamma_{\lambda} d\lambda, \tag{1}$$

where I_{T} is photocurrent at black body temperature T; K is a constant depending on instrument design, and the other notation is standard. Orig. art. has: 3 formulas and 5 figures.

SUB CODE: 09/ SUBM DATE: none/ ORG REF: 003/ OTH REF: 001

Card 2/2

· ionis	SKIY, V.N.; ROMANYUK, N.A.; STEFANSKIY, I.V. Temperature dependence of birefringence dispersion in ammonium temperature dependence dependence dispersion in ammonium temperature dependence	<u>m</u>	
	Temperature dependence of birefringence dispersion in ammontation of the dispersion	MIRA	18:10)
	그를 하고 있을 때문에 하는 말이 들어 있는 것은 것이 없다. 그는 것은 일이 없는 것이 없는 것이 없는 것이다.		
	에는 보는 사람들은 경기를 가장 마음을 보고 있다. 그런 그는 그는 그는 그를 보고 있는 것이 되었다. 그는 그를 보고 있는 것이 되었다. 그렇게 하는 그리고 함께 살아보고 있다. 하면 소문을 보고 있는 것이 되었다. 그는 그를 보고 있는 것이 되었다. 그를 받아 보고		
	사람들이 함께 살아보고 있다면 함께 살아 있는 것이 되었다. 그는 사람들은 사람들이 있는 것이 있는 것이 되었다.		
	사용하는 경영 이 경영 등에 보는 것이 되었다. 그는 것이 되었다. 그런 그는 것이 되었다. 그런 그는 것이 되었다. 그는 것이 되었다. 그런 그는 것이 되었다. 그는 것이 되었다. 그는 것이 되었다. 그는 것이 말을 보는 것이 하는 것이 되었다. 그는 것이 되었다.		
	고리는 생각 보고 있다. 이 글로 살아 아마지를 보고 있는 것이 되었다. 그는 그들은 것이 되었다. 그는 것이 되었다. 지근 사람들은 경기를 보고 있는 것이 되었다. 그는 것이 되었다. 그는 것이 되었다. 그는 것이 되었다.		
	는 이 사람들은 가는 것을 받는 생물이 이번 사람들은 것이 되었다. 그는 것은 것이 되었다. 그는 것은 것을 받는 것은 것을 받는 것이다. 하는 것은 것은 것은 것을 받는 것을 보고 있다. 것은 것은 것은 것은 것은 것을 받는 것은 것은 것을 받는 것		
	. 이 그것은 마음 사람들은 경기 사용하는 하고 있습니다. 그들은 이 경기는 사용을 받았다고 있습니다. 그런 그는 사용하는 사용이 되었다. 		
	사용하다 사용하는 사용하는 사용하는 사용하는 사용하는 것이 되었다. 1985년 - 1985년		
	마음을 하는 것이 없는 것이 없는 것이 되었다. 그는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이다. 그는 것이 많은 것이 없는 것이 되었다. 그는 것이 없는 것		
	는 마음 사람들이 되었습니다. 그 마음 수 있는 것 않는데 보고 있는데 한 것을 보고 있는데 보고 있는데 보고 있다.		
	다. 하면 전에 보면 바쁜데 하는데 하다는데 하는데 보고 있다. 그 사람들은 하는데 하고 있다는데 되었다. 이 사람 나는데 하는데 하는데 되었다.		

1. Institut kristallografii AN SSSR. (Glycine—Electric properties) (Ferroelectric substances)	ESTROVA, I.M., ROMANYUK, N.A. Effect of ultraviolet radiation on the seignettoelectric properties of triglycine sulfate crystals. Kristallografiia 5 no.1:147-150 Ja-F 160. (MIRA 13:7)	
	1. Institut kristallografii AN SSSR. (Glycine-Electric properties) (Ferroelectric substances)	
	고 보고 하다는 사람들은 얼마 보고 있었다. 그들은 그리고 있는 것이 되는 것이 되었다. 그런 그리고 있는 것이 없는 것이다. 	
	마스 보통 보통 수 있는 경영 보통 등 사용하는 경우 등 기업을 받는 것이 되어 있다. 그런 그런 그는 사용하는 것은 것을 받는 것을 받는 것이다. 이 경영을 통해 되는 것이 되는 것을 하는 것을 보고 있는 것을 하는 것이 되었다. 그런 것은 것이 되는 것이 없는 것이 없는 것이 없는 것이 없는 것이다. 	
	CANANTA BANGAN AND AND AND AND AND AND AND AND AND A	
한 이렇게 그는 그는 것으로 함께 하는 해결 강설을 하는 것으로 함께 가는 것으로 한다. 1985년 - 1985년 - 1985년 1987년 - 1987년	FOR THE REPORT OF THE PROPERTY OF THE PROPERT	
	잗잗잗잗 잗잗잗잗잗 잗잗잗잗	

CIA-RDP86-00513R001445310018-4 "APPROVED FOR RELEASE: 07/19/2001

ROMANYUK, N.A.; PIDZYRAYLO, N.S. Changes in some of the dielectric and optical properties of crystals of Rochelle salt due to hard radiation. Kristallografiia

RESTANCE OF THE PROPERTY OF TH

(MIRA 18:2) 9 no.6:870-875 N-D 164.

1. Livovskiy gosudarstvennyy universitet i Institut kristallografii AN SSSR.

ROMANYUK, N.A.; ZHELUDEV, I.S.

Changes in the dome'n structure of Rochelle salt crystals due to radiation. Kristallografiia 9 no.6:376-878 N-D '64.

(MIRA 18:2)

1. L'vovakiy gosudarstvennyy universitet i Institut ristallografii AN SSSR.

```
VISHNEVSKIY, V.N. [Vyshnevs'kyi, V.N.]; VUS, Ya.M.; KULIK, L.N. [Kulyk. L.M.]; MARGHUK, Ye.P. [Marchuk, IE.P.]; ROMANYUK, N.A.[Romaniuk. L.M.].

Reflection spectra in the vacuum region of the spectrum. (MIRA 18:4)

Ukr. fiz. zhur. 10 no.2:222-223 F '65.

1. L'vovskiy gosudarstvennyy universitet im. I. Franko.
```

CCESSION NR: AP5012611	UR/0051/65/018/005/0838/0841
UTHOR: Vishnevskiy, V. N.; Romanyuk,	N. A.; Stefanskiy, I. V.
TILE: Temperature dependence of the ydrophosphate crystals	dispersion of birefringence of ammonium di-
OURCE: Optika i spektroskopiya, v. l	.8, no. 5, 1965, 838-841
OPIC TAGS: ammonium dihydrophosphate lex, temperature dependence ADP crysta	e, birefringence, dispersion, refractive in- al, absorption dichroism
linary refractive index of ammonium div. 8, 736, 1960). The dispersion of the fraction method, using a set-up based grating of 1200 lines/mm. The source was you distribution in the spectrum. The line samples were plane-parallel plates.	an earlier study of the dispersion of the or- hydrophosphate crystals (ADP) (Opt. i spektr the refractive index was determined by a dif- on a DFS-8 spectrograph with diffraction s a GSVD-120 lamp which has a continuous ener polarizer was single-crystal Iceland spar. s 0.15—1.20 mm thick, cut parallel to the made at wavelengths 280—750 nm and tempera- t at the required temperature in a miniature

L 52339-65 0 ACCESSION NR: AP5012611 oven. Spectral reference lines were produced with a mercury lamp. The temperature dependence of the dispersion of the birefringence was investigated from the spectrograms of Fresnel diffraction, taking into account the visually determined temperature shift of one of the extrema of the diffraction pattern and the coefficient of linear expansion of the sample. The results have shown that when the ADP crystal temperature increases the refractive index decreases for the ordinary ray and increases sharply for the extraordinary ray. The birefringence and its dispersion decrease markedly with increasing temperature: An empirical formula is derived for the dispersion curves at room temperature. The constants of the Sell-meyer formula are determined, and it is suggested on the basis of the results that dichroism of absorption exists in ADP crystals. Further research will be necessary to find out whether the two absorption bands differ in intensity or in position in the spectrum. Orig. art. has: 2 figures and 3 formulas. ASSOCIATION: . none SUB CODE: 00 ENCL: SUBMITTED: 20Mar64 ATD PRESS: OTHER: 005 NO REF SOV: 003 Card 2/2778